

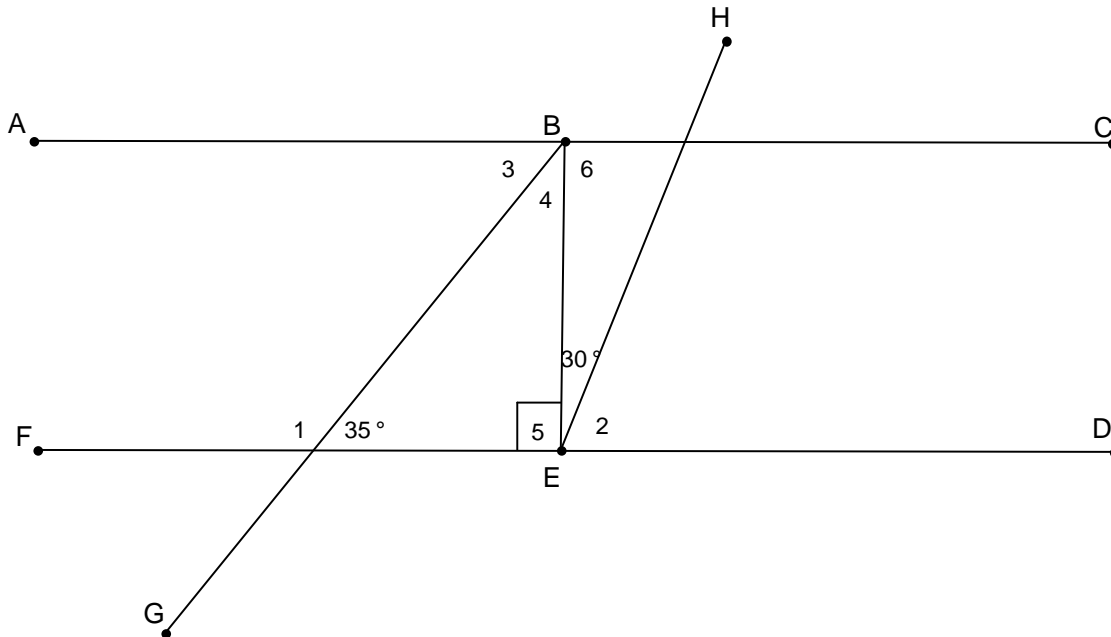
Parallel Lines

Sketch 2 parallel lines cut by a transversal (hint: the top and bottom of a ruler are parallel, so if you just place the ruler down and trace the top and bottom, you have parallel lines). Measure all 8 angles.

Do any have the same measure?

How would you describe which angles have the same measure to someone who is blind? (use the vocabulary about angles formed by lines cut by a transversal)

Problem Solving Task: Assume $\overline{AC} \parallel \overline{FD}$



John says $m\angle 4$ is 55°

Any says $m\angle 4$ is 30°

Who do you agree with?

Justify your answer in two *different* ways (WITHOUT using a protractor).

Now find the measures of the remaining angles, without using a protractor.

Names(of creators)_____

Names(of solvers)_____

Homework:

Now create a similar problem with two parallel lines and three transversals. Make only one transversal perpendicular to the lines. Label each angle with a letter or number. On another sheet of paper, create an answer key. Turn in your answer key with your name on it. You will then trade this paper with someone. You will solve theirs and they will solve yours, without using a protractor. You will each receive a score based on whether or not the picture was solvable, but also if the person actually solved it correctly.